

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



CAPTIS ENERGY ENG 1

Component
Natural Gas Engine

Q8G8 (--- GAL)

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Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The tin level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		p2022 Oct20	22 Nov2022 Jan2023	Feb 2023 Mar 2023 May 2023 Ju	n2023 Aug20	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0835681	WC0835630	WC0835627
Sample Date		Client Info		21 Aug 2023	24 Jul 2023	18 Jul 2023
Machine Age	hrs	Client Info		47732	47195	47158
Oil Age	hrs	Client Info		2273	1736	1699
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	13	14	13
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>15	4	5	5
Lead	ppm	ASTM D5185m	>20	<1	<1	<1
Copper	ppm	ASTM D5185m	>15	4	3	3
Tin	ppm	ASTM D5185m	>5	<u>^</u> 7	<u>^</u> 6	<u>^</u> 6
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		10	8	3
Calcium	ppm	ASTM D5185m		2518	2495	2813
Phosphorus	ppm	ASTM D5185m		449	463	492
Zinc	ppm	ASTM D5185m		532	526	592
Sulfur	ppm	ASTM D5185m		3181	3183	3628
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	46	47	50
Sodium	ppm	ASTM D5185m	>20	7	7	8
Potassium	ppm	ASTM D5185m	>20	4	3	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>2	0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.0	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>20	20.2	19.5	19.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>20	16.2	15.4	15.4
Acid Number (AN)	mg KOH/g	ASTM D8045		1.48	1.33	1.47
Dana Nivershau (DNI)		AOTA DOGGO		0.40	0.00	0.44

Base Number (BN) mg KOH/g ASTM D2896

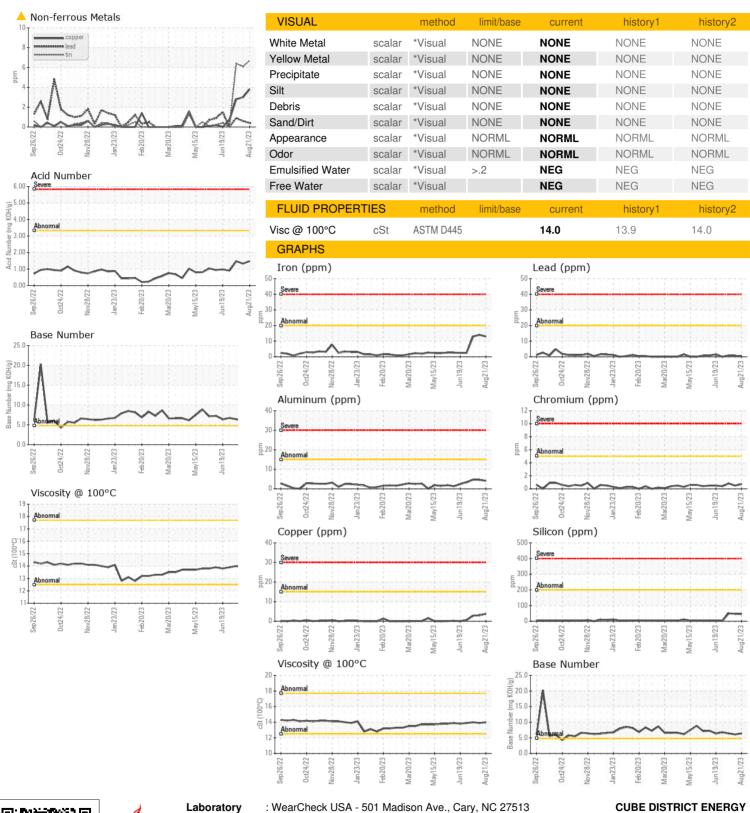
6.09

6.40

6.41



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: 05931659 : 10616930

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WC0835681 : MOB 2

Received : 22 Aug 2023 : 24 Aug 2023 Diagnosed : Don Baldridge Diagnostician

CUBE DISTRICT ENERGY 1000 WINDWARD CONCOURSE SUITE 150

ALPHARETTA, GA US 30005

Contact: RYAN INGALLS

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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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